

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P892898

Luminaire Tested: 2MB-SC3-A-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

**Test Information**

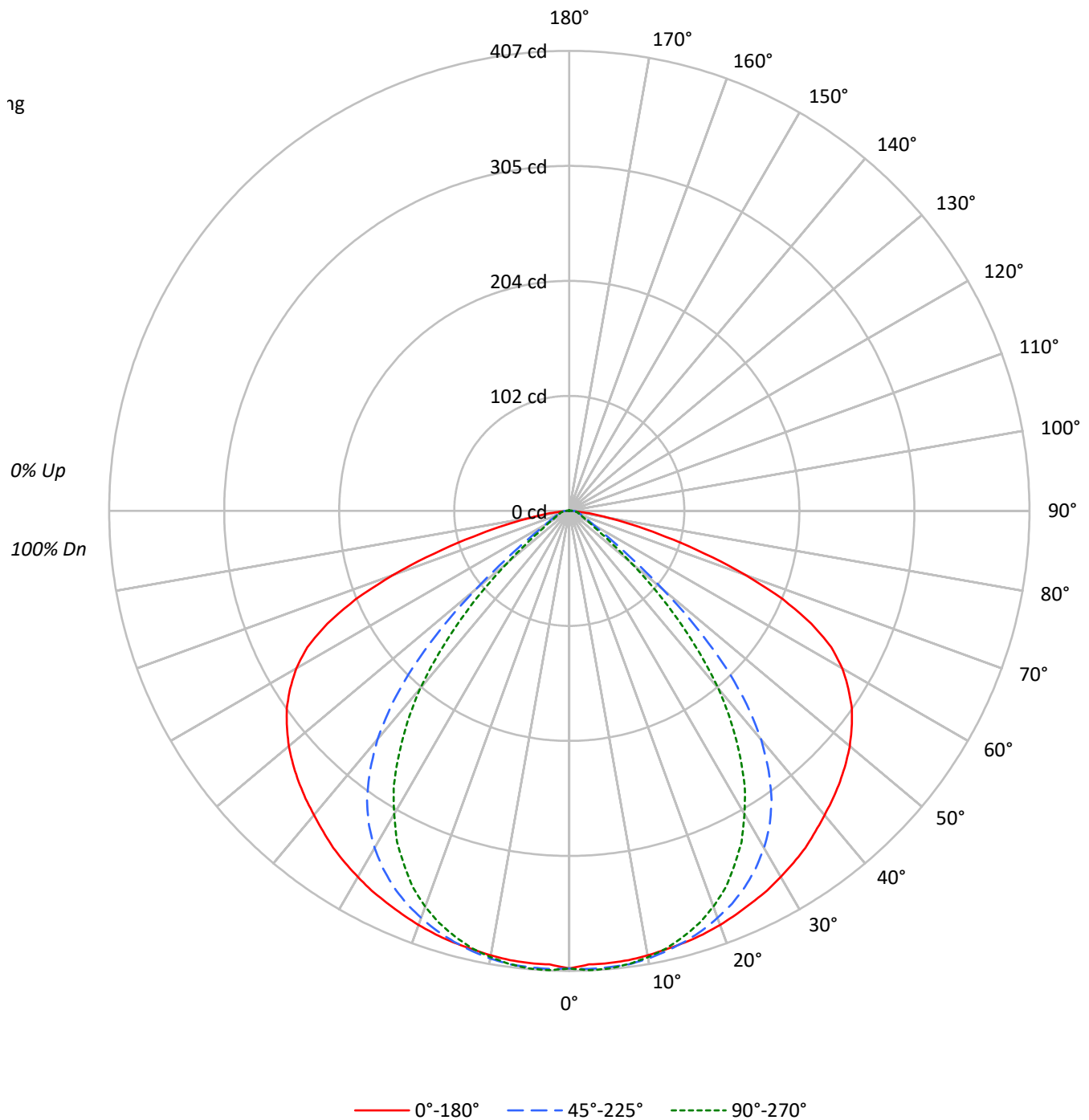
Test Method: LM-79-2019  
Report Number: P892898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-A-UNV-CC93-LOW-4000K  
Description: Selectable 2FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 4000K CCT, LOW lumen settir  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 849.1 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.39 / 1.15 / 1.25  
Luminous Opening: Rectangular (W 0.27' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 6.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	84	81	79	77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	76	72	69	76	72	69	67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	69	65	61	69	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	59	55	63	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	46	40	36	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8289	8289	8289
5°	8255	8331	8353
10°	8302	8363	8336
15°	8380	8363	8268
20°	8494	8350	8119
25°	8640	8299	7811
30°	8841	8143	7325
35°	9096	7797	6564
40°	9388	7054	5488
45°	9805	5656	3912
50°	10315	3437	2246
55°	10892	1656	1207
60°	11422	1016	823
65°	11444	819	678
70°	9908	742	635
75°	6970	752	688
80°	4104	908	873
85°	1927	1363	1292

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 11587 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.6	4.5
10°-20°	111.3	13.1
20°-30°	168.5	19.8
30°-40°	194.6	22.9
40°-50°	166.4	19.6
50°-60°	90.9	10.7
60°-70°	45.9	5.4
70°-80°	22.3	2.6
80°-90°	7.7	0.9
90°-100°	1.8	0.2
100°-110°	0.3	0.0
110°-120°	0.1	0.0
120°-130°	0.1	0.0
130°-140°	0.2	0.0
140°-150°	0.2	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	318.3	37.5
0°-40°	512.9	60.4
0°-60°	770.1	90.7
0°-90°	846.0	99.6
90°-120°	2.3	0.3
90°-150°	2.8	0.3
90°-180°	3.0	0.4
0°-180°	849.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	405	405	405	405	405	
5°	402	405	405	407	406	38
15°	395	398	394	393	390	112
25°	382	380	367	353	346	177
35°	364	352	312	276	263	228
45°	339	296	195	145	135	262
55°	305	140	46	36	34	272
65°	236	26	17	15	14	229
75°	88	14	10	9	9	98
85°	8	8	6	6	6	13
90°	0	5	4	4	3	0
95°	0	0	2	2	2	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	404.8	404.8	404.8	404.8	404.8
2.5°	401.6	404.6	405.6	407.5	406.7
5°	401.6	404.8	405.3	406.9	406.4
7.5°	400.9	403.8	404.6	405.3	404.3
10°	399.3	402.2	402.2	402.2	400.9
12.5°	397.2	400.3	398.7	397.7	396.4
15°	395.3	397.7	394.5	392.7	390.0
17.5°	392.9	394.8	389.5	385.8	382.4
20°	389.8	390.6	383.2	376.3	372.6
22.5°	386.3	385.6	376.1	366.0	361.0
25°	382.4	380.3	367.3	353.1	345.7
27.5°	378.7	374.2	356.8	337.5	329.9
30°	373.9	367.9	344.4	320.1	309.8
32.5°	369.2	360.2	329.9	300.3	289.0
35°	363.9	351.5	311.9	275.5	262.6
37.5°	357.6	340.7	289.5	248.6	234.9
40°	351.2	328.0	263.9	217.4	205.3
42.5°	345.2	313.8	232.5	182.6	170.7
45°	338.6	295.6	195.3	145.1	135.1
47.5°	331.5	270.5	152.3	110.0	101.6
50°	323.8	238.0	107.9	77.1	70.5
52.5°	314.8	193.2	71.3	52.0	47.8
55°	305.1	140.1	46.4	36.2	33.8
57.5°	292.7	91.3	32.7	26.9	25.1
60°	278.9	54.6	24.8	21.4	20.1
62.5°	261.3	35.4	20.1	17.9	16.4
65°	236.2	26.1	16.9	15.0	14.0
67.5°	204.5	21.6	14.3	12.9	11.9
70°	165.5	19.0	12.4	11.3	10.6
72.5°	125.1	16.6	10.8	10.0	9.5
75°	88.1	14.5	9.5	9.2	8.7
77.5°	57.8	12.7	8.7	8.4	8.2
80°	34.8	10.8	7.7	7.7	7.4
82.5°	19.5	9.5	6.9	6.9	6.3
85°	8.2	8.2	5.8	5.8	5.5
87.5°	2.4	6.3	4.8	4.8	4.2
90°	0.0	4.8	3.7	3.7	3.4
92.5°	0.0	2.6	2.6	2.9	2.6
95°	0.0	0.5	1.6	2.4	2.1
97.5°	0.0	0.3	1.1	1.8	1.6
100°	0.0	0.0	0.5	1.3	1.1
102.5°	0.0	0.0	0.3	0.8	0.8
105°	0.0	0.0	0.3	0.5	0.3
107.5°	0.0	0.0	0.3	0.3	0.3
110°	0.0	0.0	0.3	0.3	0.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.3	0.3	0.3
115°	0.0	0.0	0.0	0.3	0.3
117.5°	0.0	0.0	0.0	0.3	0.0
120°	0.0	0.0	0.0	0.3	0.0
122.5°	0.0	0.0	0.0	0.3	0.0
125°	0.0	0.0	0.3	0.3	0.0
127.5°	0.0	0.0	0.3	0.3	0.3
130°	0.0	0.0	0.3	0.3	0.3
132.5°	0.3	0.0	0.3	0.3	0.3
135°	0.3	0.3	0.3	0.3	0.3
137.5°	0.3	0.3	0.3	0.3	0.3
140°	0.3	0.3	0.3	0.3	0.3
142.5°	0.3	0.3	0.3	0.3	0.3
145°	0.3	0.3	0.3	0.3	0.3
147.5°	0.3	0.3	0.3	0.3	0.3
150°	0.3	0.3	0.3	0.3	0.3
152.5°	0.3	0.3	0.3	0.3	0.3
155°	0.3	0.3	0.3	0.5	0.3
157.5°	0.3	0.3	0.3	0.5	0.3
160°	0.3	0.3	0.3	0.5	0.3
162.5°	0.3	0.3	0.5	0.5	0.5
165°	0.3	0.3	0.5	0.5	0.5
167.5°	0.3	0.3	0.5	0.5	0.5
170°	0.3	0.3	0.5	0.5	0.5
172.5°	0.3	0.3	0.5	0.5	0.5
175°	0.3	0.3	0.5	0.5	0.5
177.5°	0.3	0.3	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.52	18.93	17.89	19.25	19.57	6.63	8.05	7.01	8.37	8.69
	3H	20.30	21.55	20.68	21.89	22.26	7.64	8.90	8.03	9.23	9.61
	4H	21.13	22.30	21.54	22.66	23.05	8.19	9.37	8.60	9.72	10.11
	6H	21.52	22.60	21.94	22.98	23.38	8.90	9.98	9.32	10.35	10.75
	8H	21.60	22.62	22.03	23.02	23.43	9.27	10.29	9.70	10.69	11.10
	12H	21.61	22.59	22.05	22.98	23.42	9.68	10.66	10.12	11.05	11.49
4H	2H	17.34	18.51	17.74	18.87	19.26	7.07	8.24	7.48	8.60	8.99
	3H	20.13	21.09	20.55	21.50	21.91	8.34	9.30	8.76	9.71	10.13
	4H	20.96	21.82	21.40	22.25	22.70	9.07	9.94	9.51	10.36	10.81
	6H	21.43	22.18	21.90	22.63	23.11	9.99	10.74	10.46	11.19	11.66
	8H	21.55	22.24	22.02	22.70	23.17	10.47	11.17	10.95	11.63	12.10
	12H	21.60	22.22	22.09	22.71	23.19	11.02	11.64	11.51	12.12	12.61
8H	4H	20.86	21.55	21.33	22.01	22.48	9.51	10.21	9.99	10.66	11.14
	6H	21.33	21.90	21.83	22.41	22.89	10.64	11.21	11.14	11.71	12.20
	8H	21.46	21.98	21.98	22.50	23.00	11.28	11.80	11.81	12.32	12.82
	12H	21.56	22.02	22.08	22.52	23.09	12.02	12.48	12.54	12.98	13.56
12H	4H	20.82	21.44	21.31	21.93	22.41	9.68	10.30	10.17	10.79	11.27
	6H	21.28	21.80	21.80	22.32	22.82	10.85	11.37	11.38	11.89	12.39
	8H	21.44	21.90	21.96	22.40	22.98	11.59	12.05	12.11	12.55	13.13